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SEQUENCE LISTING

<110> FRENKEN, LEO
VAN DER CORNELIS P.

<120> METHOD FOR PRODUCING ANTIBODY FRAGMENTS

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<151> 1999-01-25

<150> EP 98300525.7
<151> 1998-01-26

<160> 18

<170> PatentIn Ver. 2.1

<210> 1
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 1
aggtsmarct gcagsagtcw gg

22

<210> 2
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 2
catgccatga ctcgcggccc agccggccat ggccsaggtts marctgcags agtcwgg 57

<210> 3
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 3
aacagttaag cttccgcttg cggccgcgga gctggggctc tcgctgtggc gcg

53

<210> 4
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 4
 aacagttaag cttccgcttg cggccgctgg ttgtggttt ggtgtcttgg gtt 53

<210> 5
 <211> 117
 <212> PRT
 <213> Lama glama

<400> 5
 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
 1 5 10 15

Phe Leu Arg Phe Ser Cys Ala Ala Leu Gly Ala Arg Phe Ser Ser Asp
 20 25 30

Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ala Ala Ser Ser Trp Asn Gly Asp Thr Thr His Tyr Ser Asp Ser Val
 50 55 60

Glu Gly Gln Phe Thr Ile Ser Arg Asp Ile Ala Lys Asn Thr Ser Tyr
 65 70 75 80

Leu Gln Met Asn Arg Leu Gln Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Arg Trp Cys Arg Pro Pro Arg Pro Lys Tyr Trp Gly Gln Gly Thr Gln
 100 105 110

Val Thr Val Ser Ser
 115

<210> 6
 <211> 115
 <212> PRT
 <213> Lama glama

<400> 6
 Gln Val Gln Leu Gln Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Ser
 1 5 10 15

Phe Leu Ser Phe Ser Cys Thr Ala Ser Gly Arg Thr Phe Ser Asn Tyr
 20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Ser Gly Asn Gln Arg Ala Phe Val
 35 40 45

Ala Ala Ile Gly Arg Asn Gly Asp Thr His Tyr Ile Asp Ser Val Lys
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Gly Lys Asp Thr Val Tyr Leu
 65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Arg
 85 90 95

Ile Trp Val Gly Ala Arg Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr
 100 105 110

Val Ser Ser
 115

<210> 7
 <211> 116
 <212> PRT
 <213> Lama glama

<400> 7
 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15

Phe Leu Arg Phe Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Arg Tyr
 20 25 30

Thr Met Gly Trp Phe Arg Gln Ala Pro Gly Asn Glu Arg Lys Phe Val
 35 40 45

Ala Ala Val Ser Thr Ser Gly Asn Thr His Tyr Thr Gly Ser Val Lys
 50 55 60

Gly Arg Phe Thr Ile Phe Arg Gln Asn Ala Lys Asn Thr Val Tyr Leu
 65 70 75 80

Gln Met Ser Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Ala Arg Phe Gly Gly Met Asn Trp Lys Tyr Trp Gly Gln Gly Ile Gln
 100 105 110

Val Thr Val Ser
 115

<210> 8
 <211> 121
 <212> PRT
 <213> Lama glama

<400> 8
 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Pro
 1 5 10 15

Phe Leu Asn Val Ser Cys Val Val Ser Gly Gly Ile Phe Ser Asp Tyr
 20 25 30

Thr Leu Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Lys Phe Val
 35 40 45

Ala Ala Val Ser Ser Gly Gly Ser Thr His Tyr Thr Gly Ser Val Lys
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Ala Asn Thr Met Tyr Leu
 65 70 75 80

Gln Met Ser Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys Asn
 85 90 95

Ala Ile Val Pro Pro Thr Arg Thr Phe Cys Gly Arg Thr Tyr Trp Gly
 100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

A
 <210> 9
 <211> 112
 <212> PRT
 <213> Lama glama

<400> 9
 Gln Val Gln Leu Gln Glu Ser Gly Gly Leu Val Gln Pro Gly Asp
 1 5 10 15

Phe Val Arg Leu Ser Cys Ala Ala Ser Arg Arg Ala Ser Ser Thr Tyr
 20 25 30

Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Gly Arg Ile His Arg Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Gln Asn Thr Val Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Asn Val Arg Ser Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 100 105 110

<210> 10
 <211> 117
 <212> PRT
 <213> Lama glama

<400> 10
 Gln Val Gln Leu Gln Glu Ser Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15

Phe Leu Arg Phe Ser Cys Ala Ala Ser Asn Ala Leu Phe Ser Gly Tyr
 20 25 30

Ala Met Gly Cys Phe Arg Gln Ala Val Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ala Ala Ile Thr Trp Asn Asn Arg Asn Thr His Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Thr Ser Gly Met Arg Arg Leu Gly Asp Tyr Trp Gly Gln Gly Thr Gln
 100 105 110

Val Thr Val Ser Ser
 115

a
 <210> 11
 <211> 124
 <212> PRT
 <213> Lama glama

<400> 11
 Gln Val Lys Leu Gln Glu Ser Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Lys Tyr
 20 25 30

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
 35 40 45

Ala Gly Ile Ser Thr Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asp Thr Val Tyr Leu
 65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Ala Gly Arg Arg Ile Ser Ser Tyr Tyr Ser Arg Gly Leu Tyr Ala
 100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 12
 <211> 124
 <212> PRT
 <213> Lama glama

<400> 12
 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
 1 5 10 15

 Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Arg Ser Phe Ser Asn Phe
 20 25 30

 Ala Met Ala Trp Phe Arg Gln Thr Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

 Ala Gly Ile Ser Trp Arg Gly Gly Arg Thr Tyr Tyr Ala Ala Ser Val
 50 55 60

 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Gly Lys Asn Thr Val Tyr
 65 70 75 80

 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

 Ala Thr Ala Tyr Gly Gln Gly Pro Ile Thr Val Pro Lys Phe Tyr Thr
 100 105 110

 Tyr Arg Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

A1
 <210> 13
 <211> 121
 <212> PRT
 <213> Lama glama

<400> 13
 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15

 Cys Val Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Arg Tyr
 20 25 30

 Thr Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

 Ala Ala Ile Ser Trp Arg Ser Gly Gly Ile Lys Ile Tyr Gly Asp Ser
 50 55 60

 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asp Thr Val
 65 70 75 80

 Tyr Val Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
 85 90 95

 Cys Asn Ser Arg Pro Arg Ile Tyr Arg Gly Asn Val Val Tyr Trp Gly
 100 105 110

 Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 14
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 14
ggcccagccg gccatggccc aggtgcagct gcag

34

<210> 15
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 15
Ala Gln Pro Ala Met Ala Gln Val Gln Leu Gln
1 5 10

<210> 16
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 16
gcggccgccc atcaccatca ccatcacggg gccgcagaa

39

<210> 17
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 17
Ala Ala Ala His His His His His Gly Ala Ala Glu
1 5 10

<210> 18
<211> 11
<212> PRT
<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Myc peptide
sequence

<400> 18

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn
1 5 10